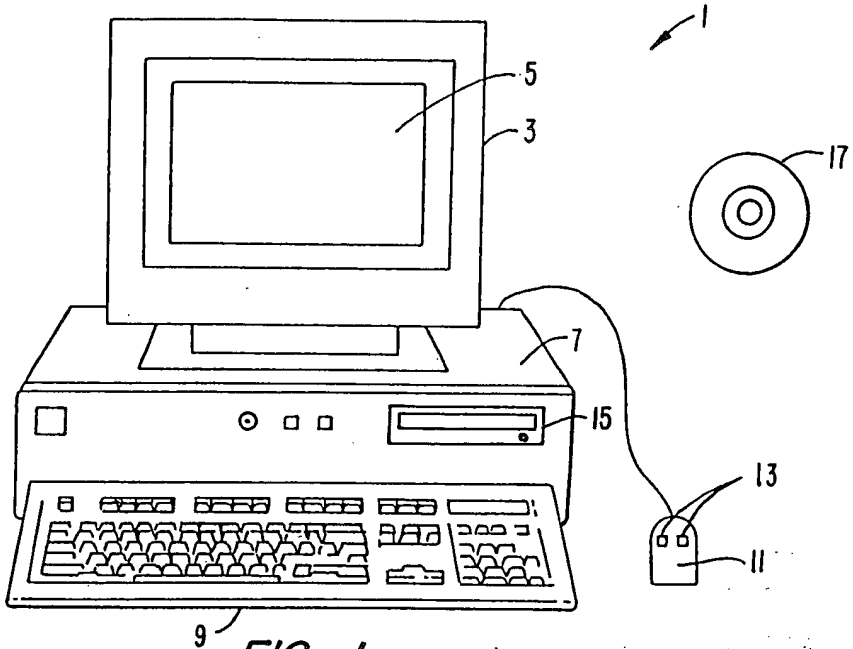
1
5
3
17
7
15
13
11
9

FIG. 1.

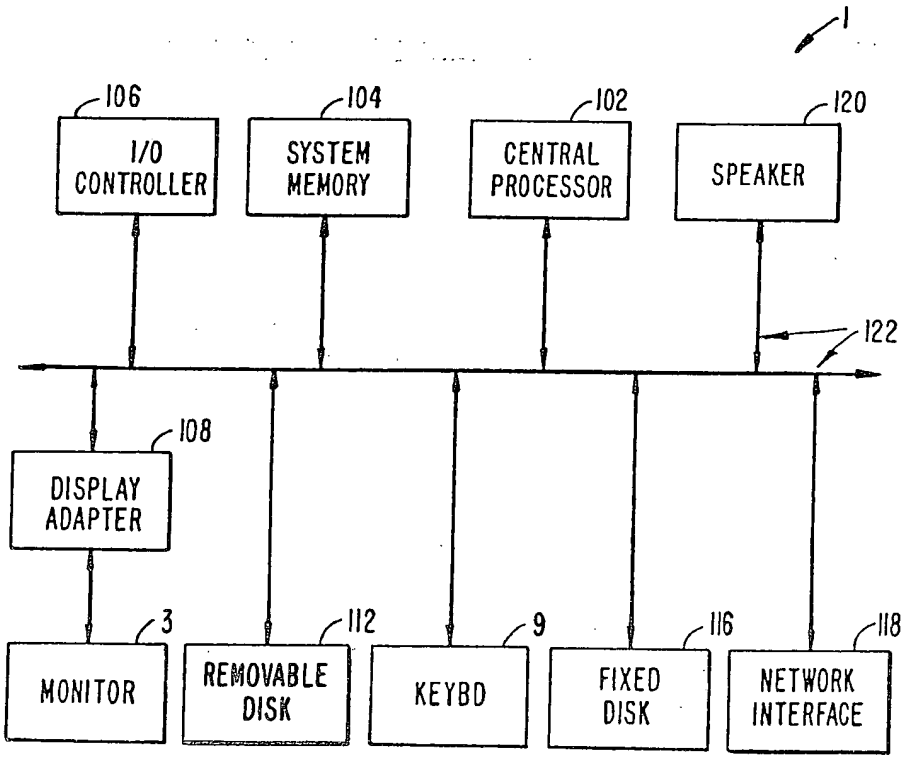
1
106
I/O CONTROLLER
104
SYSTEM MEMORY
102
CENTRAL PROCESSOR
120
SPEAKER
122
108
DISPLAY ADAPTER
3
MONITOR
112
REMOVABLE DISK
9
KEYBD
116
FIXED DISK
118
NETWORK INTERFACE

FIG. 2.

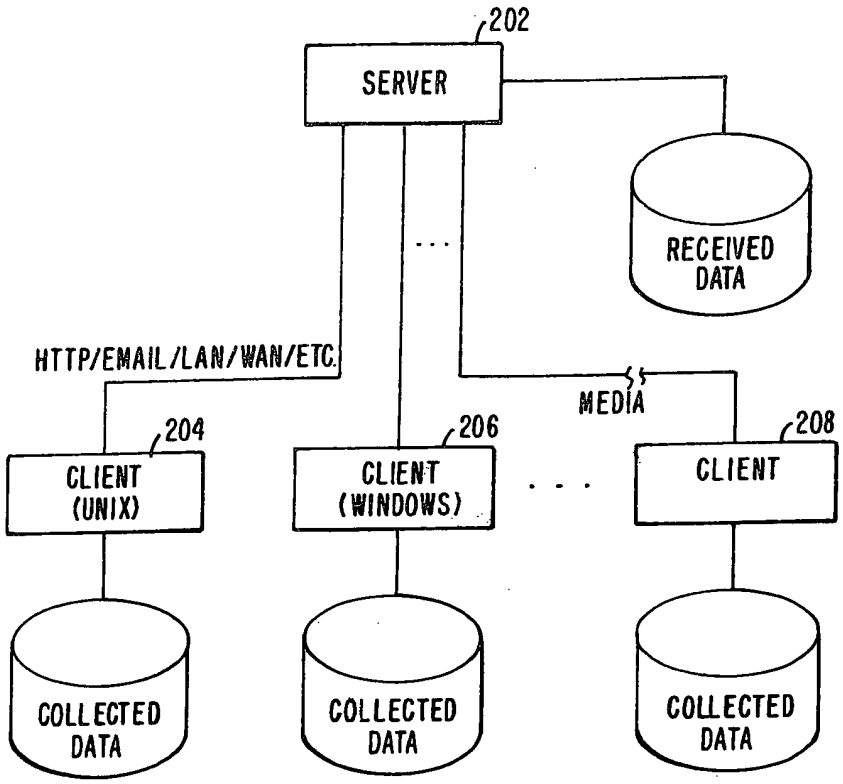
202
SERVER
RECEIVED DATA
HTTP/EMAIL/LAN/WAN/ETC.
MEDIA
204
206
208
CLIENT (UNIX)
CLIENT (WINDOWS)
CLIENT
COLLECTED DATA
COLLECTED DATA
COLLECTED DATA

FIG. 3.

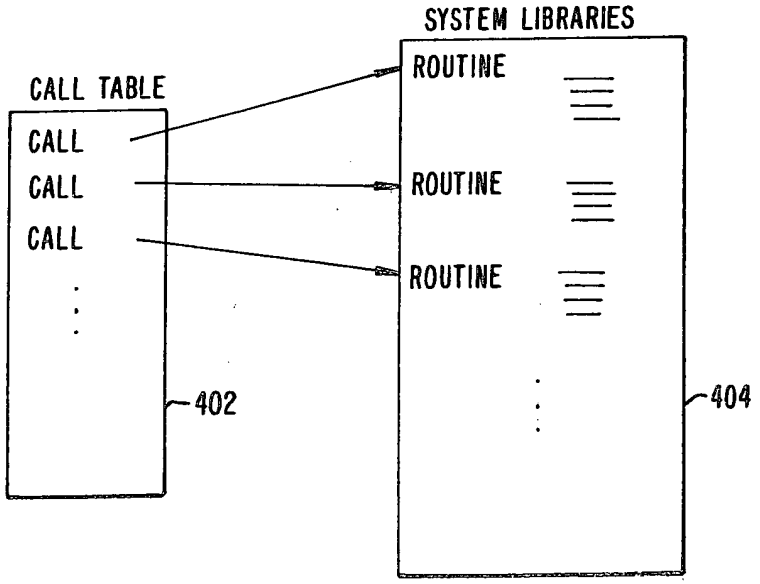
SYSTEM LIBRARIES
CALL TABLE
CALL
CALL
CALL
ROUTINE
ROUTINE
ROUTINE
402
404

FIG. 5.

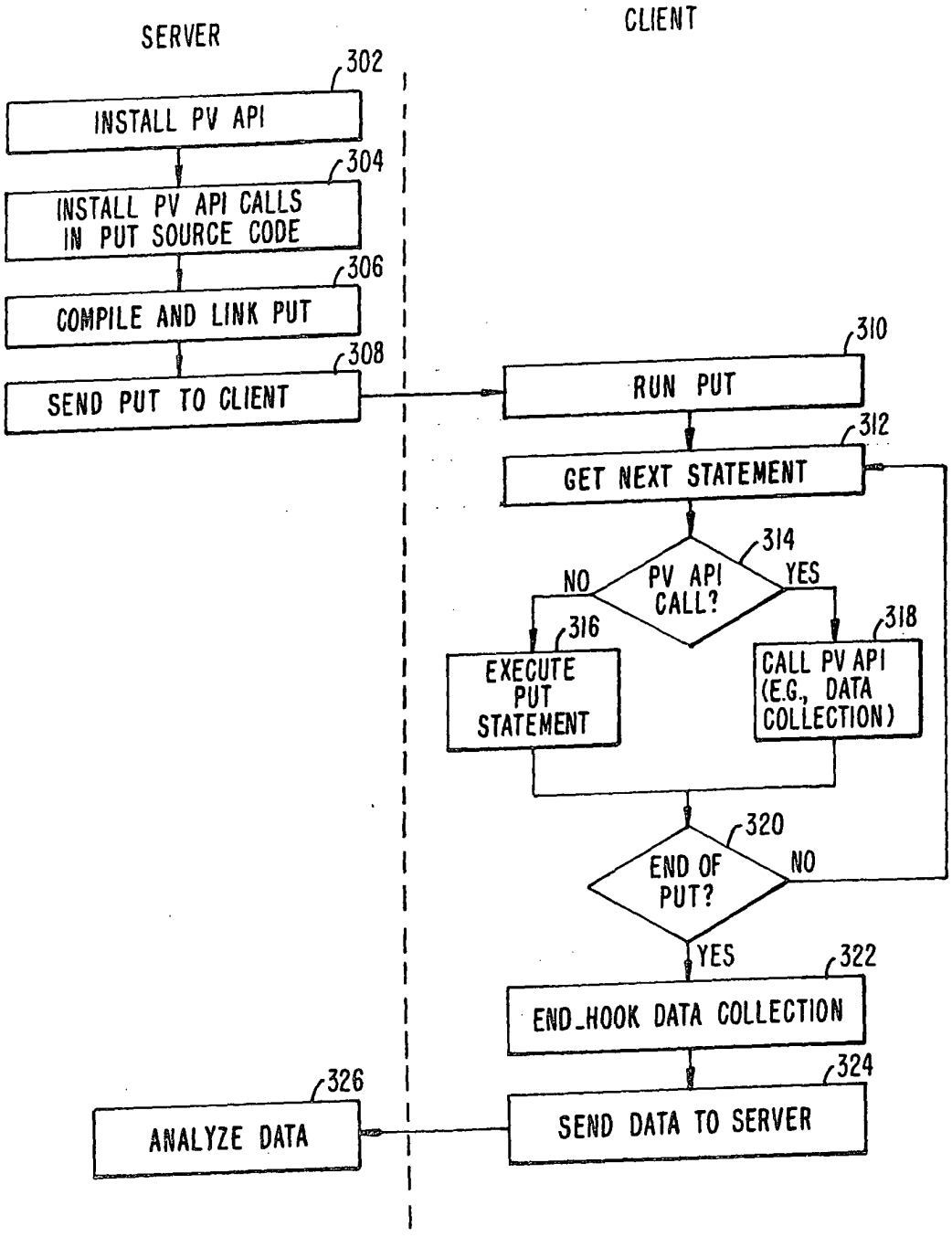
SERVER
CLIENT
302
INSTALL PV API
304
INSTALL PV API CALLS IN PUT SOURCE CODE
306
COMPILE AND LINK PUT
308
SEND PUT TO CLIENT
310
RUN PUT
312
GET NEXT STATEMENT
314
PV API CALL?
NO
YES
316
EXECUTE PUT STATEMENT
318
CALL PV API (E.G., DATA COLLECTION)
320
END OF PUT?
NO
YES
322
END_HOOK DATA COLLECTION
324
SEND DATA TO SERVER
326
ANALYZE DATA

FIG. 4.

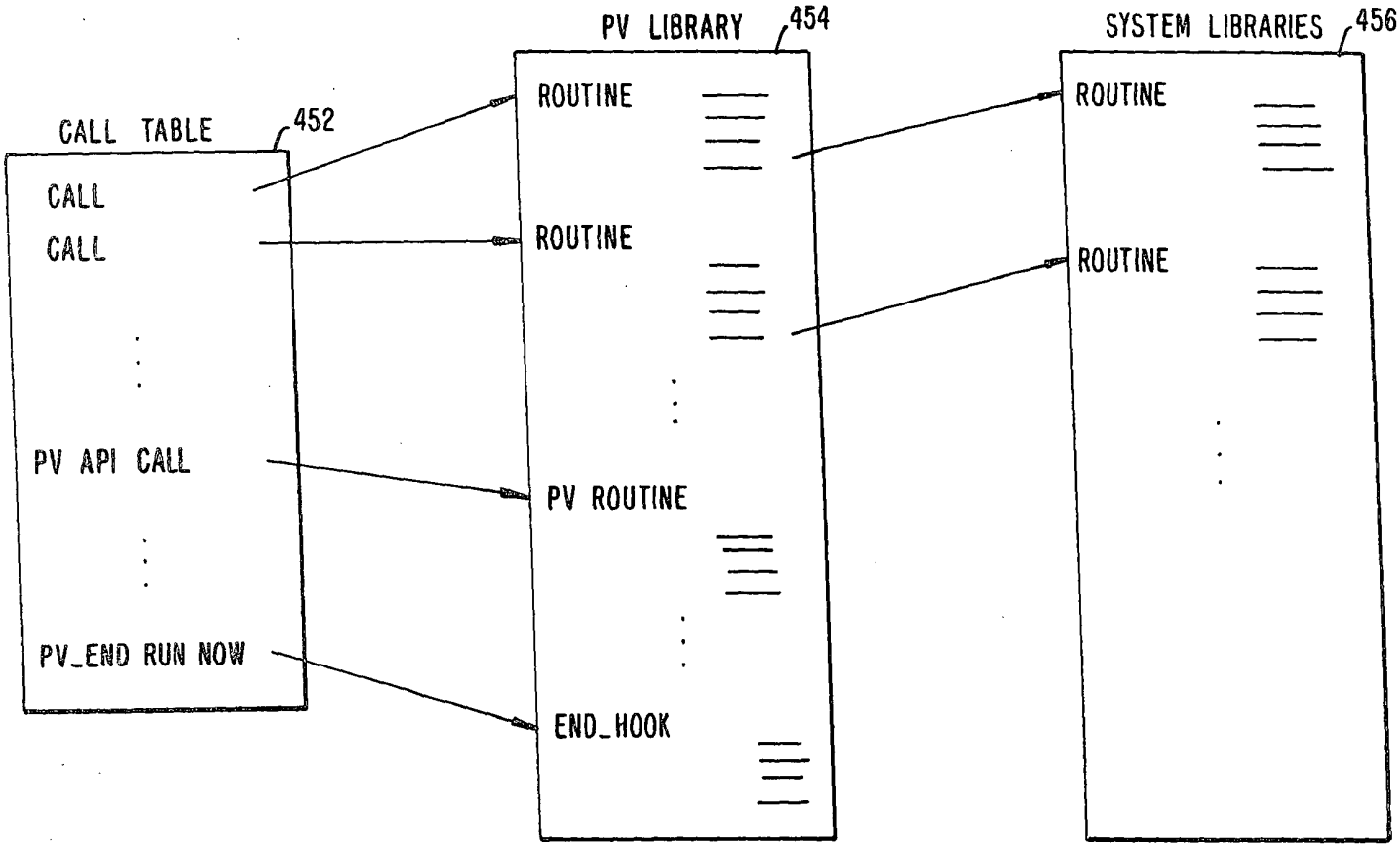
CALL TABLE
452
CALL
CALL
PV API CALL
PV_END RUN NOW
PV LIBRARY
454
ROUTINE
ROUTINE
PV ROUTINE
END_HOOK
SYSTEM LIBRARIES
456
ROUTINE
ROUTINE

FIG. 6.

	PUT TERMINATION CATEGORIES	(ENUM PV_END_TYPE)	INFORMATION AVAILABLE
1	PUT NORMAL EXIT	PV_EXIT	EXIT CODE
2	PUT EXECO	PV_EXEC	NEW EXECUTABLE NAME
3	PUT EXCEPTION CAUGHT BY DEVELOPER	PV_EXCEPTION_EXIT	EXCEPTION NUMBER + EXIT CODE
4	PUT EXCEPTION UNCAUGHT BY DEVELOPER	PV_EXCEPTION	EXCEPTION NUMBER
5	PUT DIES VIA UNCATCHABLE EVENT	PV_SPECIAL_EXCEPTION	EXCEPTION NUMBER IF AVAILABLE
6	DEVELOPER ENDS RUN BEFORE PUT ENDS	PV_LOGICAL_END	DESCRIPTION STRING FROM DEVELOPER
7	PUREVISION DIES VIA AN UNEXPECTED EVENT	PV_MONITOR_DIED	NOTHING

FIG. 7.

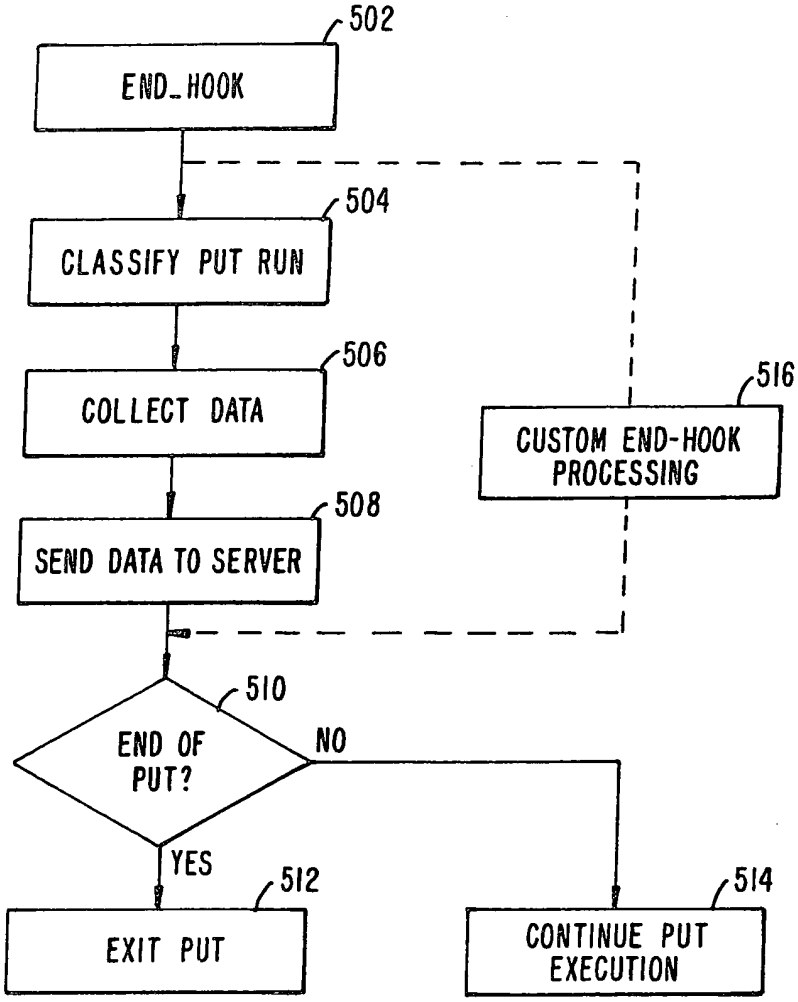
502
END_HOOK
504
CLASSIFY PUT RUN
506
COLLECT DATA
508
SEND DATA TO SERVER
516
CUSTOM END-HOOK PROCESSING
510
END OF PUT?
NO
YES
512
EXIT PUT
514
CONTINUE PUT EXECUTION

FIG. 8.

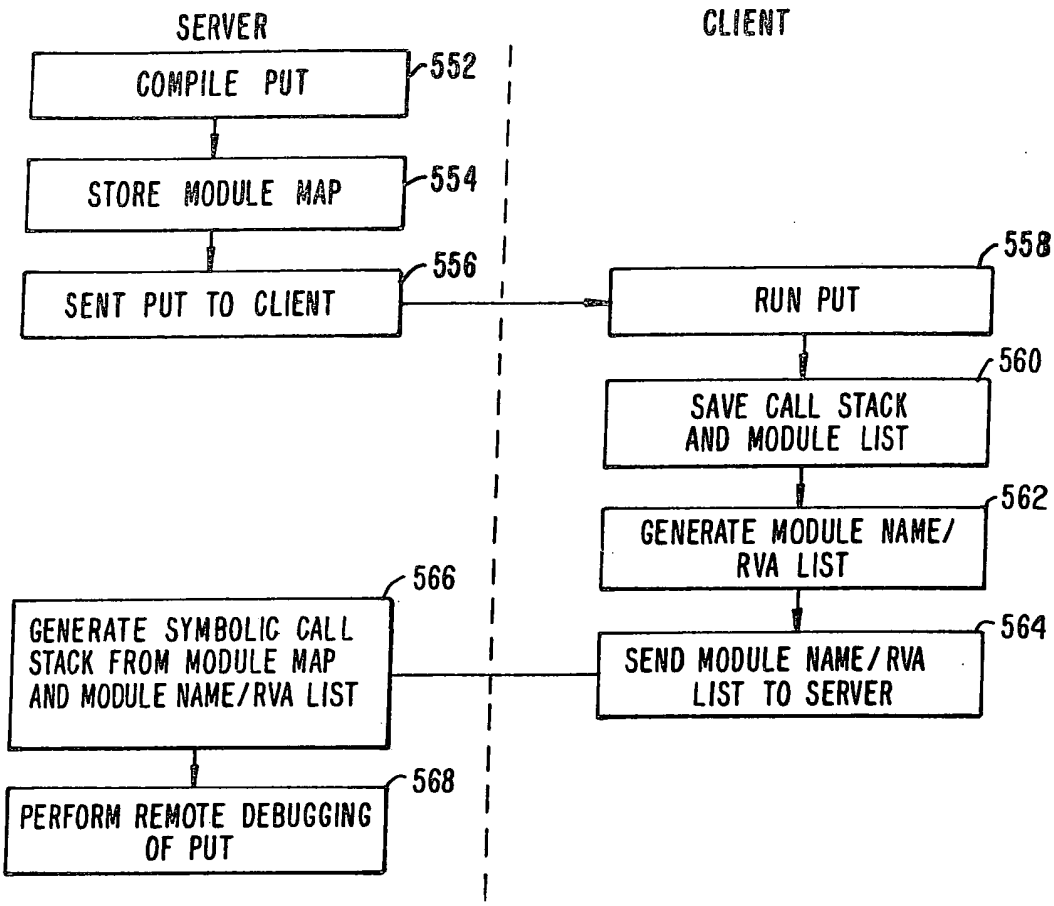
SERVER
CLIENT
COMPILE PUT
552
STORE MODULE MAP
554
SENT PUT TO CLIENT
556
RUN PUT
558
SAVE CALL STACK AND MODULE LIST
560
GENERATE MODULE NAME/ RVA LIST
562
SEND MODULE NAME/RVA LIST TO SERVER
564
GENERATE SYMBOLIC CALL STACK FROM MODULE MAP AND MODULE NAME/RVA LIST
566
PERFORM REMOTE DEBUGGING OF PUT
568

FIG. 9.

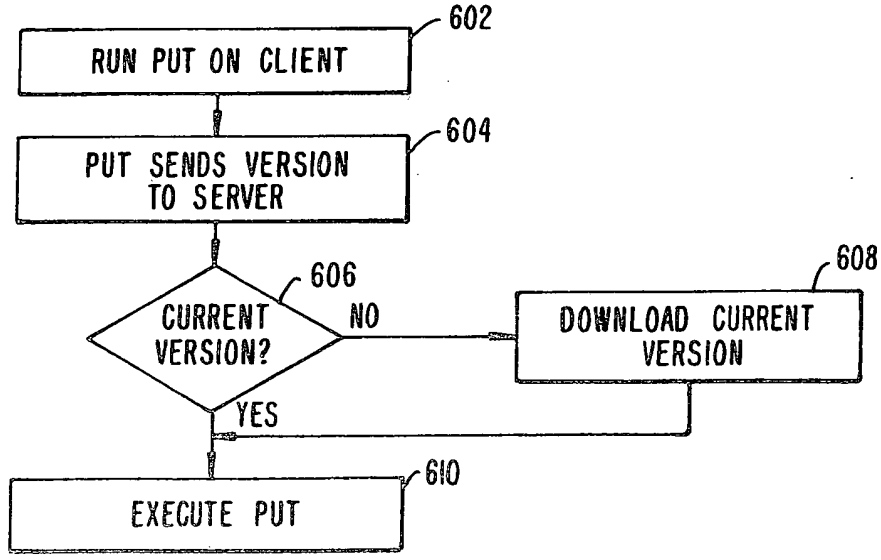
RUN PUT ON CLIENT
602
PUT SENDS VERSION TO SERVER
604
CURRENT VERSION?
606
NO
DOWNLOAD CURRENT VERSION
608
YES
EXECUTE PUT
610

FIG. 10.

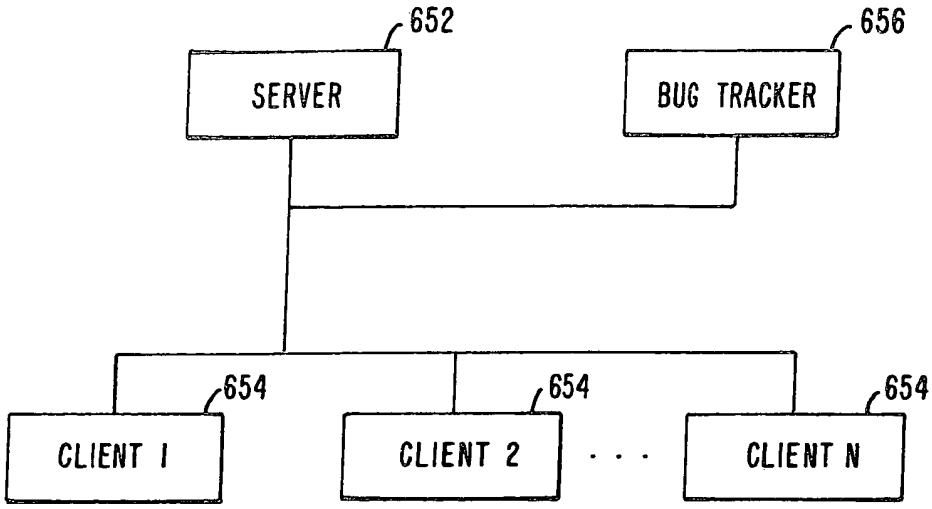
652
SERVER
656
BUG TRACKER
654
CLIENT 1
654
CLIENT 2
654
CLIENT N

FIG. 11.

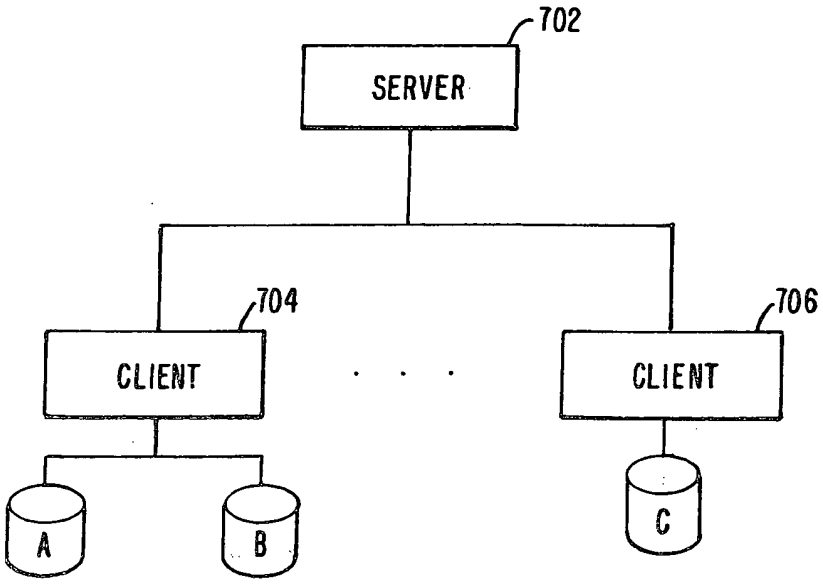
702
SERVER
704
CLIENT
706
CLIENT
A
B
C

FIG. 12.

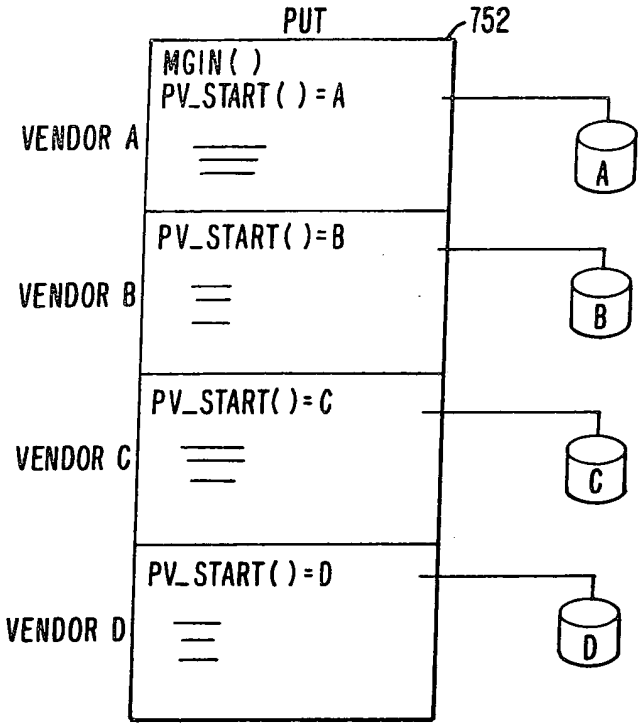
PUT
752
MGIN( )
PV_START( ) = A
VENDOR A
A
PV_START( )=B
VENDOR B
B
PV_START( )=C
VENDOR C
C
PV_START( )=D
VENDOR D
D

FIG. 13.

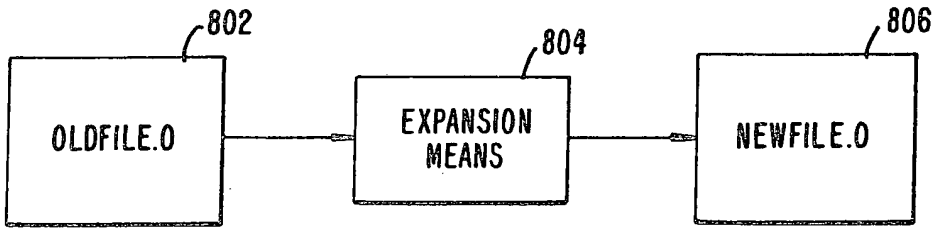
802
804
806
OLDFILE.O
EXPANSION MEANS
NEWFILE.O

FIG. 14.